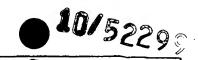
02 FEB 200F



#### INTERNATIONAL SEARCH REPORT

Internation pplication No PCT/CA 03/01195

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G0286/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted cluring the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, INSPEC, COMPENDEX

EP 0 373 340 A (QUANTE AG)	Relevant to daim No.
EP 0 373 340 A (QUANTE AG)	
20 June 1990 (1990-06-20) column 7, line 2-43 column 10, line 16-33 figures 6,8	1,2
PATENT ABSTRACTS OF JAPAN vol. 014, no. 094 (P-1010), 21 February 1990 (1990-02-21) -& JP 01 302209 A (SHIMADZU CORP), 6 December 1989 (1989-12-06) abstract	1,2
-/	
	column 10, line 16-33 figures 6,8  PATENT ABSTRACTS OF JAPAN vol. 014, no. 094 (P-1010), 21 February 1990 (1990-02-21) -& JP 01 302209 A (SHIMADZU CORP), 6 December 1989 (1989-12-06)

X Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
Special categories of cited documents:  A* document defining the general state of the an which is not considered to be of particular relevance.  E* earlier document but published on or after the international filing date.  L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another cliation or other special reason (as specified).  O* document reterring to an oral disclosure, use, exhibition or other means.  P* document published prior to the international filing date but later than the priority date claimed.	To tater document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone of the considered to involve an truentive step when the document is combined with one or more other such document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "8" document member of the same patent family
Date of the actual completion of the International search  14 October 2003	Date of mailing of the international search report  21/10/2003
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk .  Tet (+31-70) 340-2040, Tx. 31 651 epo nt, Fax: (+31-70) 340-3016	Authorized officer  Verdrager, V

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Internation pplication No PCT/CA 03/01195

0.70		PCT/CA 03	/01195
Calegory *	ation) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with Indication, where appropriate, of the relevant passages		Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 016, no. 155 (P-1338), 16 April 1992 (1992-04-16) -& JP 04 006507 A (FURUKAWA ELECTRIC CO LTD:THE), 10 January 1992 (1992-01-10) abstract figures 4,8		1,2
A <sub>.</sub>	DE 198 30 358 A (DIAMOND SA) 21 January 1999 (1999-01-21) column 3, line 28 -column 4, line 10 figures 1,2		1,2
A	PATENT ABSTRACTS OF JAPAN vol. 015, no. 344 (P-1245), 30 August 1991 (1991-08-30) -& JP 03 130706 A (FUJITSU LTD), 4 June 1991 (1991-06-04) abstract figures 1,3		1,2
Α · · .	DE 27 54 347 A (LICENTIA GMBH) 13 June 1979 (1979-06-13) page 7, paragraph 1	·	1,2
Α	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 24, 11 May 2001 (2001-05-11) -& JP 2001 194554 A (NISSHIN KASEI:KK;NIPPON TELEGR & TELEPH CORP), 19 July 2001 (2001-07-19) abstract figures 2,3		1,2
		•	
			·





	Info	don on patent family men	ibers	1	1/CA	03/01195
Patent document cited in search report		Publication date		Patent family member(s)	<u> </u>	Publication . date
EP 0373340	A	20-06-1990	DE AT DE EP ES TR	0373340 A	T D1 A1 T3	21-06-1990 15-02-1993 04-03-1993 20-06-1990 16-06-1993 01-11-1991
JP 01302209	A	06-12-1989	NONE			
JP 04006507	A	10-01-1992	NONE	<del></del>		
DE 19830358	A	21-01-1999	CH. DE	692165 / 19830358 /		28-02-2002 21-01-1999
JP 03130706	A	04-06-1991	NONE			·
DE 2754347	A	13-06-1979	DE	2754347	A1	13-06-1979
JP 2001194554	A	19-07-2001	NONE			<del>*************************************</del>



# IN THE CANADIAN PATENT OFFICE

The Receiving Office

In The Matter of International (PCT) Patent Application:

Current Owner :

Le Savoir du Gardien Inc. Le Savoir du Gardien Inc.

Original Applicant: Serial No. :

PCT/CA03/01195

Filing Date

August 7, 2003

Title

**OPTICAL FIBER CONNECTOR ASSEMBLY** 

Our File

L8000684WO

Date

August 9, 2004

The Commissioner of Patents 50 Victoria Street, Phase I, Place du Portage Gatineau, Quebec K1A 0C9

## Response to Written Opinion and Amended under Article 34 (2) (b) PCT

#### Dear Sirs:

This is in response to the written opinion dated April 8, 2004. Please amend the application as follows:

#### In the claims

Please replace claims 1 and 2 with amended claims 1 and 2 on replacement pages 18 to 20 submitted herewith.

#### In the disclosure

Please replace the disclosure pages 4 to 16 with amended disclosure pages 4 to 17 submitted herewith.

#### Remarks

The Applicant has amended claim 1 to add the feature that the connector is made from any suitable material that has the property of shape memory.

The Applicant has amended claims 1 and 2 to add the reference numerals in parentheses as required by Rule 6.2(b) PCT.

Gowling Lafleur Henderson LLP

Page 1



The Applicant has amended the disclosure at page 5, line 3 to include reference to EP 373 340 and to add the relevant background disclosed therein as required by Rule 5.1 (a) (ii) PCT.

The Applicant has also added at page 4, lines 28 to 31, page 5, lines 28 to 30 and page 7, lines 7 to 11 of the disclosure, text that explains that the present connector assembly can be used and applied to any context where fibers from an optical network are to be connected and as such is not limited to "last mile" connection.

Respectfully submitted,

#### **GOWLING LAFLEUR HENDERSON LLP**

Agents for Applicant

Emmanuel Manolakis Direct Dial (514) 392-9592 EMM:KS

Encl.





# From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:				PCT	
Manolakis, Emmanuel				•	
GOWLING LAFLEUR HENDERSON L.L.P. 1, Place Ville-Marie, 37th Floor			WRITTEN OPINION		
Montréal, Quebec, H CANADA	3B 3P4		**	(PCT Rule 66)	
			<del> </del>		
			June Y	6/04	
			Date of mailing.	· .	
			(day/month/year)	08.04.2004	
Applicant's or agent's file r	eference		REPLY DUE	within 2 month(s) from the above date of mailing	
International application N	0.	International filing date (d	lay/month/year)	Priority date (day/month/year)	
PCT/CA 03/01195	•	07.08.2003	•	09.08.2002	
	fication (IPC) or	both national classification	and IPC	1	
G02B6/38					
Applicant LE SAVOIR DU GAF	DICKLING	-1			
LE SAVOIR DU GAR	IDIEN INC. et	a		·	
	<del></del>				
This written opinion.	on is the first o	Irawn up by this Internat	ional Preliminary Exa	mining Authority.	
2. This opinion conta	ains indications	relating to the following	items:	·	
I ⊠ Basis	of the opinion				
lí 🗆 Priorit	у	•	•		
III 🔲 Non-e	stablishment of	f opinion with regard to r	ovelty, inventive step	and industrial applicability	
IV 🗆 Lack	of unity of inven	ition			
V ⊠ Reaso citatio	ned statement ns and explana	under Rule 66.2(a)(ii) w tions supporting such st	ith regard to novelty, atement	Inventive step or industrial applicability;	
	n documents c				
		international application			
VIII Certai	n observations	on the international app	lication		
3		to reply to this opinion.			
When? See the request	e time limit indica t this Authority to	ited above. The applicant m grant an extension, see Ri	nay, before the expirationale 66.2(d).	n of that time limit,	
How? By sub For the	mitting a written of form and the lar	reply, accompanied, where iguage of the amendments	appropriate, by amenda , see Rules 66.8 and 66.	nents, according to Rule 66.3. 9.	
Also: For an	additional opport	tunity to submit amendment pation to consider amendment nication with the examiner,	ts, see Rule 66.4.	·	
If no reply is filed,	the international	preliminary examination rep	port will be established o	on the basis of this opinion.	
4. The final date by	which the inter	national preliminary blished according to Rul		·	

Name and mailing address of the international preliminary examining authority:



European Patent Office - Gitschiner Str. 103 D-10958 Berlin Tel. +49 30 25901 - 0 Fax: +49 30 25901 - 840 Authorized Officer

Verdrager, V

Formalities officer (Incl. extension of time limits) Geier, A

Telephone No. +49 30 25901-706



Form PCT/PEA/408 (Cover Sheet) (January 2004)



-	

WR	Ш	EN.	OP	I١	II	OI	N
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International application No.

PCT/CA 03/01195

I.	Basis of the opinion						
1.	With the filed	receiving Unice in res	nts of the international application (Replacement sheets which have been furnished to sponse to an invitation under Article 14 are referred to in this opinion as foriginally				
	Des	scription, Pages					
	1-16	6 ·	as originally filed				
	Cla	ims, Numbers	•				
	1-2		as originally filed				
	Dra	wings, Sheets					
	1/7-	7/7	as onginally filed				
2.	With	n regard to the language in which the int	age, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.				
	The	These elements were available or furnished to this Authority in the following language: , which is:					
		the language of publ	instation furnished for the purposes of the international search (under Rule 23.1(b)). ication of the international application (under Rule 48.3(b)). install on furnished for the purposes of international preliminary examination (under 3).				
3.	Witl inte	h regard to any <b>nucle</b> mational preliminary	ectide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:				
		contained in the inte	mational application in written form.				
			e international application in computer readable form.				
		furnished subsequer	ntly to this Authority in written form.				
		furnished subsequer	ntly to this Authority in computer readable form.				
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.				
4.	The	amendments have re	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos				
		the drawings,	sheets:				
5.		This opinion has been considered to	en established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).				
6.	Add	fitional observations,	if necessary:				

Form PCTAPEA/408 (January 2004)



WRITTEN OPINION

International application No.

PCT/CA 03/01195

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Claims

1,2

Inventive step (IS)

Claims

1,2

Industrial applicability (IA)

Claims

2. Citations and explanations

see separate sheet





#### WRITTEN OPINION SEPARATE SHEET

International application No. PCT/CA03/01195

#### Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Cited documents

1.1 The following documents are referred to in this communication; the numbering will be adhered to in the rest of the procedure:

D1: EP-A-0 373 340 (QUANTE AG) 20 June 1990 (1990-06-20)

#### 2. Clarity

- 2.1 The application does not meet the requirements of Article 6 PCT, because claims 1 and 2 are not clear.
- 2.2 It is clear from the description on page 6, lines 2-15 and page 10, lines 7-20 that the following feature is essential to the definition of the invention: the connector is made from any suitable material that has the property of shape memory.

Since independent claim 1 does not contain this feature it does not meet the requirement following from Article 6 PCT taken in combination with Rule 6.3(b) PCT that any independent claim must contain all the technical features essential to the definition of the invention.

This essential feature is only implicitly contained in independent claim 2 (page 18, lines 15-16; page 19, lines 2-3) and has to be explicitly added (Rule 6.3(b)).

# 3. Novelty and inventive step

- 3.1 The subject-matter of claims 1 and 2 is considered to be both novel and inventive (Article 33(2) and 33(3) PCT) for the following reasons.
- 3.2 The subject-matter of claim 1 relates to a connector assembly for connecting





#### WRITTEN OPINION SEPARATE SHEET

International application No. PCT/CA03/01195

optical fibers comprising:

a connector made from a material having the shape memory property, the connector comprising a longitudinally extending body, and said body having a conduit, and said body comprising a plurality of finger projections; a connector housing comprising four quarter portions, and defining a connector chamber for receiving said connector, said quarter portions configured such that two of the quarter portions when assembled comprise a first end and two of the quarter portions when assembled comprise a second end of said connector housing and further configured to exert tractional force on the said connector when said connector is positioned in the connector chamber, by axial rotation of said first part end relative to said second end of said connector housing, each of said connector housing ends comprising an aperture and pass through conduit between said aperture and said connector chamber; and a needle capable of insertion through said aperture, pass through conduit and connector conduit; and capable of expansion of the radial diameter of said connector conduit when inserted there through.

- 3.3 The closest prior art is represented by document D1, which describes a connector for optical fibers. The end portion of each fiber is fitted in a connector element which has a bush which encloses three short rods of circular cross-section. These rods form a centralising device for the end of the wave guide. Each half of the coupling has an outer bush which receives the inner bush of each connector element. It aligns them one with the other, so that the fibers are also aligned with each other.
- 3.4 The difference between the subject-matter set out in claim 1 and that of D1 is that the connector of D1 is not made from a "shape memory" material and that it has no needle.
- 3.5 The technical problem to be solved by the present invention is to provide a "last mile" optical fiber connector with high mechanical precision, enabling frequent connections and disconnections.
- 3.6 The tractional force applied by the four quarter portions on the connector deforms the connector according to the elastic limits of the connector made of a material having the property of shape memory. The inserted needle causes an extension





# WRITTEN OPINION SEPARATE SHEET

International application No. PCT/CA03/01195

of the diameter of the conduit. After removal of the needle but still under tractional force, optical fibers to be connected can be easily inserted in the enlarged conduit. The relieve of the tractional force on the connector then reduces the diameter of the connector conduit according to the shape memory property, therefore securing the optical fiber abutment.

The specific features of the solution provided by claim 1 are neither disclosed in nor rendered obvious by either one of the prior art documents listed in the European search report. Therefore, the subject-matter of present claim 1 is considered to be both novel and inventive (Articles 33(2) and 33(3) PCT).

3.7 The subject-matter of independent claim 2, which defines a method of connecting optical fibers, is also considered to be both novel and inventive (Articles 33(2) and 33(3) PCT).

## 4. Formal aspects

- 4.1 Independent claims 1 and 2 are not in the two-part form in accordance with Rule 6.3(b) PCT.
- 4.2 The features of the claims 1 and 2 are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).
- 4.3 To meet the requirements of Rule 5.1(a)(ii), the document D1 should be identified in the description and the relevant background art disclosed therein should be briefly discussed.
- 4.4 In order to facilitate the examination of the conformity of the amended application with the requirements of Article 34(2)(b) PCT, the applicant is requested to clearly identify the amendments carried out, no matter whether they concern amendments by addition, replacement or deletion, and to indicate the passages of the application as filed on which these amendments are based (see also Rule 66.8(a) PCT).

If the applicant regards it as appropriate these indications could be submitted in handwritten form on a copy of the relevant parts of the application as filed.





## PATENT COOPERATION TREATY

#### From the INTERNATIONAL BUREAU

#### PCT

# INFORMATION CONCERNING ELECTED OFFICES NOTIFIED OF THEIR ELECTION

(PCT Rule 61.3)

10:

MANOLAKIS, Emmanuel Gowling Lafleur Henderson LLP 1, Place Ville-Marie 37th Floor Montréal, Québec H3B 3P4 Canada

Date of mailing (day/month/year) 16 April 2004 (16.04.2004)

Applicant's or agent's file reference L8000684WO

#### IMPORTANT INFORMATION

International application No. PCT/CA2003/001195

International filing date (day/month/year)
07 August 2003 (07.08.2003)

Priority date (day/month/year)

09 August 2002 (09.08.2002)

Applicant

LE SAVOIR DU GARDIEN INC. et al

 The applicant is hereby informed that the International Bureau has, according to Article 31(7), notified each of the following Offices of its election:

EP:AT,BE,BG,CH,CY,CZ,DE,DK,EE,ES,FI,FR,GB,GR,HU,IE,IT,LU,MC,NL,PT,RO,SE,SI,SK,TR

National :BG,CA,CN,DE,GB,IL,JP,KP,KR,MN,NO,PL,RO,RU,SK,US

2. The following Offices have walved the requirement for the notification of their election; the notification will be sent to them by the International Bureau only upon their request:

AP :GH,GM,KE,LS,MW,MZ,SD,SL,SZ,TZ,UG,ZM,ZW

EA:AM,AZ,BY,KG,KZ,MD,RU,TJ,TM

OA:BF,BJ,CF,CG,CI,CM,GA,GN,GQ,GW,ML,MR,NE,SN,TD,TG

National :AE,AG,AL,AM,AT,AU,AZ,BA,BB,BR,BY,BZ,CH,CO,CR,CU,CZ,DK,DM,DZ,EC,

EE,ES,FI,GD,GE,GH,GM,HR,HU,ID,IN,IS,KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,

MG,MK,MW,MX,MZ,NI,NZ,OM,PG,PH,PT,SC,SD,SE,SG,SL,SY,TJ,TM,TN,TR,TT,TZ,UA,

UG,UZ,VC,VN,YU,ZA,ZM,ZW

3. The applicant is reminded that he must enter the "national phase" before the expiration of 30 months from the priority date before each of the Offices listed above. This must be done by paying the national fee(s) and furnishing, if prescribed, a translation of the international application (Article 39(1)(a)), as well as, where applicable, by furnishing a translation of any annexes of the international preliminary examination report (Article 36(3)(b) and Rule 74.1).

Some offices have fixed time limits expiring later than the above-mentioned time limit. For detailed information about the applicable time limits and the acts to be performed upon entry into the national phase before a particular Office, see Volume II of the PCT Applicant's Guide.

The entry into the European regional phase is postponed until 31 months from the priority date for all States designated for the purposes of obtaining a European patent.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer:

Mohamed Mehdi MAOUI

Facsimile No. (41-22) 338.89.95

Form PCT/IR/332 (Centember 1997)

Telephone No. (41-22) 338 8387

6207181



#### PATENT COOPERATION TREALY

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY Manolakis, Emmanuel GOWLING LAFLEUR HENDERSON L.L.P. NOTIFICATION OF RECEIPT 1, Place Ville-Marie, 37th Floor OF DEMAND BY COMPETENT INTERNATIONAL Montréal, Quebec, H3B 3P4 PRELIMINARY EXAMINING AUTHORITY CANADA (PCT Rules 59.3(e) and 61.1(b), first sentence and Administrative Instructions, Section 601(a)) Date of mailing 02-04-2004 (day/month/year) Applicant's or agent's file reference IMPORTANT NOTIFICATION L8000684WO International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/CA03/01195 07/08/2003 09/08/2002 Applicant LE SAVOIR DU GARDIEN INC. et al. The applicant is hereby notified that this International Preliminary Examining Authority considers the following date as the date of receipt of the demand for international preliminary examination of the international application: 09/03/2004 This date of receipt is: the actual date of receipt of the demand by this Authority (Rule 61.1(b)). the actual date of receipt of the demand on behalf of this Authority (Rule 59.3(e)). the date on which this Authority has, in response to the invitation to correct defects in the demand (Form PCT/IPEA/404), received the required corrections. ATTENTION: That date of receipt is after the expiration of 19 months from the priority date. Consequently, in respect of some Offices, the demand does not have the effect of postponing the entry into the national phase until 30 months from the priority date (or later in some Offices) (Article 39(1)) and the acts for entry into the national phase must therefore be performed within 20 months from the priority date (or later in some Offices). However, in respect of some other Offices, the time limit of 30 months (or later) may nevertheless apply. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Interpret size. Internet site. (If applicable) This notification confirms the information given by telephone, facsimile transmission or in person Only where paragraph 3 applies, a copy of this notification has been sent to the International Bureau. Name and mailing address of the IPEA/ Authorized officer Buropean Patent Office, Gitschiner Str. 103 D-10969 Berlin - Germany Tel.: (+49-30) 25901-0 Fax: (+49-30) 25901-840

GRANDIS D

Tel. (+31-70) 340-2784



## FATENT COOPERATION TREATY

# From the INTERNATIONAL BUREAU

#### PCT

#### NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

To

MANOLAKIS, Emmanuel Gowling Lafleur Henderson LLP 1, Place Ville-Marie 37th Floor Montréal, Québec H3B 3P4 Canada

Date of mailing (day/month/year) 29 September 2003 (29,09,03)	
Applicant's or agent's file reference L8000684WO	IMPORTANT NOTIFICATION
International application No. PCT/CA03/01195	International filing date (day/month/year) 07 August 2003 (07.08.03)
International publication date (day/month/year)  Not yet published	Priority date (day/month/year) 09 August 2002 (09.08.02)

- The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the international Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority document concerned was submitted or transmitted to the international Bureau in compliance with Rule 17.1(a) or (b).
- 2. This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
- 3. An asterisk(\*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the international Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- 4. The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

Priority date	Priority application No.	Country or regional Office or PCT receiving Office	Date of receipt of priority document
09 Augu 2002 (09.08.02)	2,397,280	CA	25 Sept 2003 (25.09.03)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer -

Léonard MULLER (Fax 338-8995)

Facsimile No. (41-22) 338.89.95 Teleph

Telephone No. (41-22) 338 8817

Form PCT/IB/304 (July 1998)

005880088

A C. T	1		
	International Application No.		
REQUEST			
	International Filing Date		
The undersigned requests that the present			
international application be processed according to the Patent Cooperation Treaty.	Name of receiving Office and "PCT International Application"		
	Applicant's or agent's file reference (if desired) (12 characters maximum) L8000684WO		
BOX NO. 1 TITLE OF INVENTION OPTICAL FIBER CONNECTOR ASSEMBLY			
Box No. II APPLICANT This person	on is also inventor		
Name and address: (Formits norma followed)			
The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of residen	diffy.full official designation. Telephone No. 418.545.4580		
Le Gardien du Savoir	Facsimile No.		
255, rue Racine Est, Bureau 600	418.549.9590		
C.P. 5420	Teleprinter No.		
Chicoutimi, Québec, G7H 6J6, Canada	Applicant's registration No. with the Office		
State (that is, country) of nationality:	State (that is, country) of residence:		
This person is applicant for the purposes of:  all designated	the United States the States indicated in		
Box No. III FURTHER APPLICANT(S) AND/OR (FURT	Sezies of America only the Supplemental Box		
Name and address: (Foreith name Giller 1)			
Box is the applicant's State (that is, country) of residence if no State of residen	nce is Indicated below.)		
WEYNANT, Eric	applicant only		
1175, rue Ducharme, Appartment 101	applicant and inventor		
Outremont, Montréal, Québec, H2V 1E3, C	anada inventor only (If this check-box is marked, do not fill in below.)		
	Applicant's registration No. with the Office		
State (that is, country) of nationality:	State (that is, country) of residence:		
This person is applicant	CA		
for the purposes of: States the United	ted States except States of America  If the United States  of America only  the States indicated in the Supplemental Box		
The state of (states) also also indicated			
The person identified below is hereby to a	E; OR ADDRESS FOR CORRESPONDENCE		
The person identified below is hereby/has been appointed to act of the applicant(s) before the competent International Authorities	sas:		
Name and address: (Family name followed by given name; for a logal en The address must include postal code and name of	COUNTY.)		
MANOLAKIS, Émmanuel; D'IORIO, Hélène	514.878.9641 Facsimile No.		
Gowling Lafleur Henderson LLP  1, Place Ville-Marie, 37th Floor	514.878.1450		
Montréal, Québec, H3B 3P4, Canada	Teleprinter No.		
	Agent's registration No. with the Office		
Address for correspondence: Mark this check-hox wher			
Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.			

Form PCT/RO/101 (first sheet) (March 2001; reprint July 2003)

CONGRESSION DOS NO. 111	ND/OD (FURTURE)				
If none of the following sub-boxes is used, this sheet should not be included in the request.					
Name and address: (Fanily name followed by given name: for o legal entit The address must include postal code and name of country. The country of the Bax is the applicant's State (that is, country) of residence if no State of residence DEMISSY, Daniel 196A, Montée Henrysburg St-Bernard de Lacolle, Québec, JOJ 1V0, Caste Bernard de Lacolle, Québec, Québ	This person is:  applicant only  applicant and inventor inventor only (If this check-box is marked, do not fill in below.)				
0	• •	Applicant's registration No. with the Office			
State (that is, country) of nationality:	State (that is, country,	of residence:			
This person is applicant for the purposes of:  all designated all designated the United Si	States except X	the United States the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal enti The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence	ty, full official designation. te address indicated in this te is indicated below.)	This person is:  applicant only  applicant and inventor inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office			
State (that is, country) of nationality:	State (that is, country	) of residence:			
This person is applicant all designated all designate for the purposes of:	d States except lates of America	the United States of America only the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal end The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of resident	it), full official designation, ne address tralicated in this ce is indicated below,)	This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office			
State (that is, country) of nationality:	State (that is, country	of residence:			
T are curred 2	d States except	the United States of America only the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country of t Box is the applicant's State (that is, country) of residence if no State of residen		This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office			
State (that is, country) of nationality:	State (that is, country	) of residence:			
This person is applicant all designated for the purposes of:  all designated the United States	d States except states of America	the United States of America only the States indicated in the Supplemental Box			
Further applicants and/or (further) inventors are indicated on another continuation sheet					
Form PCT/RO/101 (continuation sheet) (March 2001; reprint July 2003)  See Notes to the request form					



MUTA the applicable check-boxes below; at least one must be marked. The following designations are hereby made under Rule 4.9(a): AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT (if other kind of protection or treatment desired, 🔀 EA Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT EP European Patent: AT Austria, BE Belgium, BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Czech Republic, DE Germany, DK Denmark, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, HU Hungary, IE Ireland, IT Italy; LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, RO Romania, SE Sweden, SI Slovenia, SK Slovakia, TR Turkey, and any other State which is a Contracting State of the European Patent Convention 🖸 OA OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GQ Equatorial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind National Patent (if other kind of protection or treatment desired, specify on dotted line): AG Antigua and Barbuda

HU Hungary

D PG Papua New Guinea

AL Albania

D ID Indonesia

D PH Philippines PH Philippines ..... AU Australia IS Iceland IX RO Romania IX AZ Azerbaijan IX IX JP Japan IX RU Russian Federation. BA Bosnia and Herzegovina. KE Kenya. BB Barbados KG Kyrgyzstan SC Seychelles BR Brazil LC Saint Lucia SI SI Sierra Leone

stein LK Sri Lanka SI SY Syrian Arab Republic

LR Liberia SI TJ Tajikistan CH & LI Switzerland and Liechtenstein 😿 LK Sri Lanka CN China ...... 🔀 LR Liberia X TN Tunisia TR Turkey ..... TT Trinidad and Tobago ...... DE Germany MA Morocco M DM Dominica ..... XI UA Ukraine ..... Macedonia ..... UZ Uzbekistan ..... FI Finland:..... 🛣 MWMalawi..... ..... X VC Saint Vincent and the Grenadines GB United Kingdom K GD Grenada ZA South Africa ..... ZM Zambia Check-boxes below reserved for designating States which have become party to the PCT after issuance of this sheet: 0..... Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

Form PCT/RO/101 (second sheet) (July 2003)

Box No. VI PRIORITY	CLAIM					
The priority of the following	earlier application(s) is here	by claimed:				
Filing date	Number	Where earlier application is:				
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application:		
item (1) 9 August 2002 (09.08.02)	2,397,280	CA				
item (2)						
item (3)			•	·		
item (4)	·			· .		
item (5)				:		
Further priority claims	are indicated in the Supplen	nental Box.		l		
above as:  all items item  Where the earlier application industrial Property or one item.  Box No. VII INTERNA  Choice of International Sinternational search, Indicational ISA / EPO	tion is an ARIPO application, Member of the World Trade of the World Trade of the World Trade of the World Trade of the Authority (ISA) (is the Authority chosen; the the Authority chosen; the the Authority):  Number 1  Number	item (3) item indicate at least one country Organization for which that UTHORITY.  If two or more International wo-letter code may be used):	ational application is the  (4)	receiving Office) identified  other, see Supplemental Box vention for the Protection of filed (Rule 4.10(b)(ii)):		
The following declaration check-boxes below and ind	is are contained in Boxes No icate in the right column the n	as. VIII (i) to (v) (mark the	applicable	Number of		
Box No. VIII (i)	Declaration as to the idea		ranon):	declarations :		
Box No. VIII (ii)	Declaration as to the apple date, to apply for and be	plicant's entitlement, as at t granted a patent	he international filing	:		
Box No. VIII (iii)	Declaration as to the ap date, to claim the priori	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application				
Box No. VIII (iv)	Declaration of inventors United States of Americ	ship (only for the purposes on	of the designation of the	:		
Box No. VIII (v)	Declaration as to non-pr	rejudicial disclosures or exc	eptions to lack of nove	· lty :		

Form PCT/RO/101 (third sheet) (July 2002; reprint July 2003)

,					
This international application contains:  (a) in paper form, the following number of	This international application is accompanied by the following item(s) (mark the applicable check-baxes below and indicate in	Number of items			
sheets: request (including	right column the number of each item):  1.  re calculation sheet				
declaration sheets) : 5	original separate power of attorney				
description (excluding sequence listings and/or	3. Original general power of automey				
tables related thereto) : 16	4. Copy of general power of atromey: reference number				
claims : 3	if any:	:			
abstract : 2	5. Statement explaining lack of signature	:			
drawings : 7 Sub-total number of sheets : 33	6. priority document(s) identified in Box No. VI as item(s):				
sequence listings :	7. translation of international application into (larguage):				
tables related thereto  (for both, actual number of	separate indications concerning deposited microorganism or other biological material	m			
sheets if filed in paper form, whether or not also filed in computer readoble form;	9. sequence listings in computer readable form (indicate type and number of carriers)	:			
see (c) below)	(i) copy submitted for the purposes of international search	h under			
Total number of sheets : 33	Rule 13ter only (and not as part of the international a  (ii) (i) (only where check-box (b)(i) or (c)(i) is marked in left or	oformul 1			
(b) only in computer readable form (Section 801(a)(i))	purposes of international search under Rule 13ter	py for the			
<ul> <li>(i) sequence listings</li> <li>(ii) tables related thereto</li> </ul>	(iii) together with relevant statement as to the identity of t copies with the sequence listings mentioned in left co	olumn : [			
(c) also in computer readable form (Section 80 I(a)(ii))	10. tables in computer readable form related to sequence list (Indicate type and number of carriers)				
<ul> <li>(i) ☐ sequence listings</li> <li>(ii) ☐ tables related thereto</li> </ul>	(i) copy submitted for the purposes of international sear Section 802(b-quater) only (and not as part of the international search)	ch under ernational			
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are	(ii) (iii) (only where check-hox (b)(ii) or (c)(ii) is marked in law	. : :			
contained the	purposes of international search under Section 802/h	py for the			
sequence listings:  tables related thereto:	(iii) together with relevant statement as to the identity of copies with the tables mentioned in left column	the copy or			
(additional copies to be indicated under items 9(ii) and/or 10(il), in right column)	11. Other (specify):				
Figure of the drawings which should accompany the abstract:	Language of filing of the				
Box No. X SIGNATURE OF ADDITION	international application: ENGLISH T, AGENT OR COMMON REPRESENTATIVE				
Next to each signature, indicate the name of the person sig	<ol> <li>AGENT OR COMMON REPRESENTATIVE guing and the capacity in which the person signs (if such capacity is not obvious fi</li> </ol>	rom reading the request).			
·					
	•				
Emmanuel Manolakis	·	•			
1 5	For receiving Office use only				
Date of actual receipt of the purported international application:		2. Drawings:			
		received:			
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:					
Date of timely receipt of the required corrections under PCT Article 11(2):		not received:			
International Searching Authority     (if two or more are competent): ISA /	6. Transmittal of search copy delayed until search fee is paid	٠.			
For International Bureau use only					
Date of receipt of the record copy by the International Bureau:					

Form PCT/RO/101 (last sheet) (January 2003; reprint July 2003)

]	PCT	For receiving Office use or	alv
FER CALCULATION CONTRACT		to receiving office use of	,
FEE CALCULATION SHEET  Annex to the Request		International Application No.	
	to the Reduest		
Applicant's or agent's file reference	L8000684WO	Date stamp of the receiving Office	
Applicant			
Le Savoir du Gardie	en Inc.		
CALCULATION OF PRES	SCRIBED FEES		
1. TRANSMITTAL FEE		<u>200</u> T	
2. SEARCH FEE	carried out by	1,552 [\$]	·
3. INTERNATIONAL FEE Basic Fee Where items (b) and/or (	c) of Box No. IX apply, enter Sub-total ne	imper of sheets.)	ŀ
where tiems (b) and (c)	of Box No. IX do not apply, enter Total nu	imber of sheets	
bl first 30 sheets	<u> </u>	730 bi	
number of she in excess of		51 b2	
b3 additional compon	ent (only if sequence listings and/or tables computer readable form under Section 80 n and on paper, under Section 801(a)(ii)):	related I(a)(i),	
	400 x fee per sheet	b3	
Add amounts entered at	t b1, b2 and b3 and enter total at B	781 B	
Designation Fees	cation contains All designations.		
number of designation payable (maximum 2	fees amount of designation fee	785 D	
Add amounts entered at	B and D and enter total at I	1,566	
(Applicants from certain	in States are entitled to a reduction of 7. the applicant is (or all applicants are) so entitle to f the sum of the amounts entered at 8 and	5% of the	
	DOCUMENT (If applicable)	P	<u> </u>
5. TOTAL FEES PAYAB Add amounts entered at	ILE	3,138.00\$	
	are not paid at this time.		
MODE OF PAYMENT		L	
authorization to charge deposit account (see b	elow) postal money order	cash coupons	
cheque	bank draft	revenue stamps other (specifi	,),
AUTHORIZATION TO (This mode of payment may	CHARGE (OR CREDIT) DEPOSIT ACC not be available at all receiving Offices)		
Authorization to char	ge the total fees indicated above.	Deposit Account No.: 6000	000595
(This check-box may be marked only if the conditions for deposit according of the receiving Office so permit) Authorization to charge any deficient credit any overpayment in the total fees indicated above.		Date: 7 August 2003	•
			Name: Gowling Lafleur Henderson
Authorization to char	ge the fee for priority document,	Signature:	,
Form PCT/RO/101 (Annex)	) (January 2003; reprint July 2003)	See Notes	to the fee calculation sheet



In The Matter of PCT International Patent Application:

**Applicant** 

Le Savoir du Gardien Inc. Le Savoir du Gardien Inc.

Owner

PCT/CA03/01195

PCT Appln. No. PCT Filing Date

August 7, 2003

Title

OPTICAL FIBER CONNECTOR ASSEMBLY

Our File

L8000684WO

Date

March 9, 2004

**European Patent Office** 

Erhardstrasse 27 D-80331 Munich

**GERMANY** 

# Demand under Article 31 of the Patent Cooperation Treaty; and Request for Detailed Examination

Dear Sir:

The Applicant requests that the International Application specified above be made the subject of International Preliminary Examination according to Article 31 of the Patent Cooperation Treaty.

In addition, the Applicant requests detailed examination of this case.

The prescribed Demand form is attached hereto and the prescribed fees will be paid at a later date.

Respectfully submitted,

**GOWLING LAFLEUR HENDERSON LLP** 

1 Place Ville Marie, 37th Floor

Montreal, Québec Canada H3B 3P4

Agents for Applicant

Emmanuel Manolakis

Direct Dial (514) 392-9592

EMM:sd

Gowling Lafleur Henderson LLP

Page 1

The demand must be filed directly with a competent International Preliminary Examining Authority or, if two or more Authorities are competent, with the one chosen by the applicant. The full name or two-letter code of that Authority may be indicated by the applicant on the line below:

IPFAI EPO

# PCT

CHAPTER II

#### **DEMAND**

under Article 31 of the Patent Cooperation Treaty:

The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty.

For	international Preliminary	Examining Authority	use only	
Identification of IPEA		Date of receipt of DI	EMAND .	
Box No. 1 IDENTIFICATION OF THE INTERNATIONAL APPLICATION			Applicant's or agent's file reference L8000684WO	
International application No. PCT/CA03/01195	International filing date ( 07 August 2003		(Earliest) Priority date (day/month/year) 09 August 2002 (09-08-2002)	
Title of invention OPTICAL FIBER CONNECTO	R ASSEMBLY			
Box No. II APPLICANT(S)	·			
Name and address: (Family name followed by The address must include p	given name; for a legal entity, for stall code and name of country.)	ull official designation.	Telephone No. 418.545.4580	
LE SAVOIR DU GARDIEN I			Facsimile No.	
255, rue Racine Est, Bureau	ı 600		418.549.9590	
C.P. 5420 Chicoutimi, Québec, G7H 6	J6. Canada		Teleprinter No.	
		•	Applicant's registration No. with the Office	
State (that is, country) of nationality:  CA  State (that is, country) of residence:  CA				
WEYNANT, Éric 1175, rue Ducharme, Appa Outremont, Montréal, Quét	rtment 101		ne address muca include postal code and name of country.)	
State (that is, country) of nationality:		State (that is, country) of residence:		
Name and address: (Family name followed to DEMISSY, Daniel 196A, Montée Henrysburg St-Bernard de Lacolle, Que			he address must include postol code and name of country,	
State (that is, country) of nationality:	·	State (that is, count	try) of residence:	
Further applicants are indicated	on a continuation sheet.		•	

Form PCT/IPEA/401 (first sheet) (January 2004)

See Notes to the demand form

Sheet No 2.	International application No. PCT/CA03/01195
Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CO	RRESPONDENCE
The following person is  agent  common representative	
and X has been appointed earlier and represents the applicant(s) also for international pre	liminary examination.
is hereby appointed and any earlier appointment of (an) agent(s)/common represer	•
is hereby appointed, specifically for the procedure before the International Prelimithe agent(s)/common representative appointed earlier.	
Name and address: (Family name followed by given name: for a legal entity, full official designation.  The address must include postal code and name of country.)	Telephone No.
MANOLAKIS, Emmanuel, D'IORIO, Hélène	514.878.9641
Gowling Lafleur Henderson LLP	Facsimile No.
1, Place Ville-Marie, 37th Floor	514.878.1450
Montréal, Québec, H3B 3P4, Canada	Teleprinter No.
	Agent's registration No. with the Office
Address for correspondence: Mark this check-box where no agent or common space above is used instead to indicate a space above is used instead to indicate a space.	representative is/has been appointed and the
apare accretion ascer instead to indicate a special address to which correspondence	should be sent.
Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION	
Statement concerning amendments:*	
1. The applicant wishes the international preliminary examination to start on the basis o	f:
the international application as originally filed	
the description as originally filed	
as amended under Article 34	
the claims X as originally filed	·
as amended under Article 19 (together with any accompany)	ng statement)
as amended under Article 34	
the drawings X as originally filed	
as amended under Article 34	
2. The applicant wishes any amendment to the claims under Article 19 to be consi	
3. The applicant wishes the start of the international preliminary examination (applicable time limit under Rule 69.1(d).	
4. The applicant expressly wishes the international preliminary examination to applicable time limit under Rule 54bis. I(a).	start earlier than at the expiration of the
* Where no check-box is marked, international preliminary examination will start of as originally filed or, where a copy of amendments to the claims under Article 19 and/of under Article 34 are received by the International Preliminary Examining Authority be or the international preliminary examination report, as so amended.	e amondments of the international application
Language for the purposes of international preliminary examination: ENGLISH	1
which is the language in which the international application was filed.	,

which is the language of a translation furnished for the purposes of international search.

which is the language of the translation (to be) furnished for the purposes of international preliminary examination.

The filing of this demand constitutes the election of all Contracting States which are designated and are bound by Chapter II of the

which is the language of publication of the international application.

Form PCT/IPEA/401 (second sheet) (January 2004)

Box No. V ELECTION OF STATES

See Notes to the demand form

	Sheet No 3		International application No. PCT/CA03/01195	
Box No. VI CHECK LIST				
The demand is accompanied by the following elements, in the language referred to in Box No. IV, for the purposes of international preliminary examination:			For International Preliminary Examining Authority use only	
1. translation of international application	:	sheets	received not r	eceived
2. amendments under Article 34	: `	sheets		- -
copy (or, where required, translation) of amendments under Article 19	; ·	sheets		
copy (or, where required, translation) of statement under Article 19	. •			
5. letter	:	sheets sheets		
6. other (specify)	:	sheets		
The demand is also accompanied by the item(s) m	arked below:			
1. fee calculation sheet		5. statement expla	nining lack of signature	
2. original separate power of attorney		_	g in computer readable form	•
1	3. original general power of attorney  7. tables in computer readable form related to a			
reference number, if any:	4. copy of general power of attorney: sequence listing			
Box No. VII SIGNATURE OF APPLICANT,	AGENT OR C	COMMON REPRESENT	TATIVE	
Next to each signature, indicate the name of the person sign	ng and the capacity	in which the person signs (if su	ch capacity is not obvious from rec	ading the demand).
MANOLAKIS, Emmanuel				
For Internat	ional Prelimina			· · · · · · · · · · · · · · · · · · ·
Date of actual receipt of DEMAND:	ionai Pienin <u>ina</u>	y Examining Authority us	e only	
<ol> <li>Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):</li> </ol>				
3. The date of receipt of the demand is expiration of 19 months from the price item 4 or 5, below, does not apply.	AFTER the prity date and	- expiration	of receipt of the demand is of the time limit under Rule 54, below, does not apply.	AFTER the Abis. 1(a) and
The applicant has been informed  The date of receipt of the demand is Williamit of 19 months from the priority date.	THIN the time	7. The date of	receipt of the demand is WIT Rule 54bis.1(a) as extended	HIN the time d by virtue of
by virtue of Rule 80.5.  5. Although the date of receipt of the deme expiration of 19 months from the pridelay in arrival is EXCUSED pursuant	and is after the	expiration	he date of receipt of the dema of the time limit under Rule ; rival is EXCUSED pursuant	54his 1(a) the
For International Bureau use only				
Demand received from IPEA on:				
Form PCT/(PEA/401 (last sheet) (January 2004)		•		<u>:</u> :

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